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CIA-RDP86-00513R000824820012-4

KOROL'KOV, I.I., inzh.

Advanced techniques for manufacturing boring jumpers. Energetik
10 no.12:20-21 D '62. (MIRA 16:1)
(Drilling and boring machinery)

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CIA-RDP86-00513R000824820012-4"

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CIA-RDP86-00513R000824820012-4

KOROL'KOV, I.I., inzh.

Elimination of welding defects in high-pressure preheaters.
Energetik 11 no.2:8 F 31 (MIRA 16:3)
(Steam turbines—Welding)

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CIA-RDP86-00513R000824820012-4"

KOROL'KOV, I.I., inzh.

Redesigning of the piston group of steam-operated manut donkey
pumps. Energetik 11 no.5:21-22 My '63. (MIRA 16:7)
(Pumping machinery) (Boilers)

KOROL'KOV, I.I., inzh.

Overhead plug welding in boiler cyclone combustion chambers.
(MIRA 17:1)
Svar. proizv. no.1:35-36 Ja '64.

1. TSentral'noye proizvodstvennoye remontnoye predpriyatiye
Leningradskogo rayonnogo upravleniya energeticheskogo
khozyaystva.

LIKHONOS, Ye.F.; KOROL'KOV, I.I.

Simplified methodology for determining the amount of dextrans in
hydrolyzates. Gidroliz. i lesokhim.prom. 17 no.2:18-19 '64.
(MIRA 17:4)

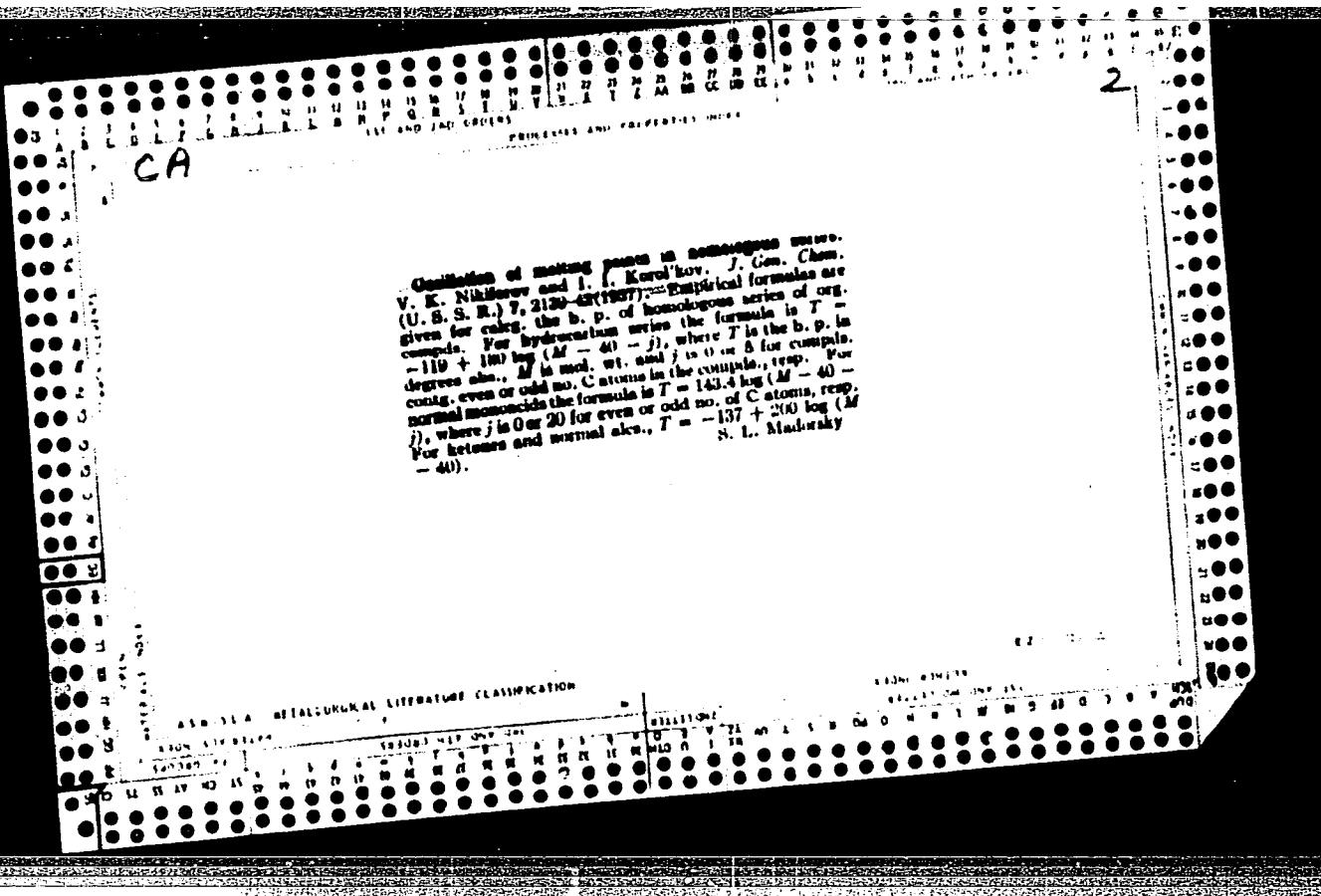
1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy
i sul'fitno-spirtovoy promyshlennosti.

KOROL'KOV, I.I.

Mechanized peat unloading from hoppers. Biul. tekhn.-ekon. inform.
Gos. nauch.-issl. inst. nauch. i tekhn. inform. 17 no.4:64-66
(MIRA 17:6)
Ap '64.

KOROL'KOV, I.I., inzh.

Prevention of leakage from the welded joints of high pressure
heaters. Energetik 11 no. 12:11-13 D '63. (MIRA 17:5)



KOROL' KOV, I I

U S S R .

Transition of calcium sulfate hydrates. I. I. Koril'tov
and G. V. Krymov. J. Appl. Chem. (U.S.S.R.) 1953,
40(1953) (Engl. translation).—See C.A. 48, 6301g.

H. L. H.

KOROL'KOV, I. I.

Journal of The American Ceramic Society, June 1, 1954
Cements, Limes and Plasters

(2)

Transformation of aqueous modifications of calcium sulfate.
I. I. KOROLEV AND A. V. KERNOVA. Zhur. Priklad. Khim.,
26, No. 7, 147-151 (1953). $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ with and without the admixture of $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ was kept in water at 20° to 105°C. for periods of up to 300 min., followed by determination of water of crystallization. The hemihydrate is stable in water at temperatures above 90°. The dihydrate changes into the hemihydrate at 102° to 105°. The hemihydrate becomes unstable in the presence of crystals of the dihydrate, dissolving and recrystallizing on the surface of the dihydrate. The rate of transformation of the hemihydrate into the dihydrate is determined by the rate of crystallization of the latter and depends on the solubility differences of the two modifications and on the extent of the surface of the dihydrate crystals. Phosphate ions and glucose decrease the rate of crystallization of the dihydrate and lower the temperature level for the formation of the dihydrate. At temperatures above 90°, it is difficult to obtain complete recrystallization of the hemihydrate. B.Z.K.

Korol'kov, I.I.

USSR

Kinetics of sugar formation from hydrolysis of wood cellulose by the percolation method. I. I. Korol'kov. J. Appl. Chem. U.S.S.R. 27, 99-101 (1954) (Eng. translation). See C.I. 48, 72041.

H. L. H.

KOROL'KOV, I. I.

[Kinetics of sugar formation from hydrolysis of wood cellulose by the percolation method. I. I. Korol'kov. Zhur. Priklad. Khim., 27, 112-14(1954).—The kinetics of sugar formation by acid hydrolysis of wood cellulose are analyzed, and the following equation expressing the rate of sugar formation Z is obtained: $Z = A(1 - e^{-K_1 t})(1 - e^{-K_2 t}/K_2 T)$, where A is the monosaccharide equiv. of cellulose and K_1 and K_2 are rate consts. of cellulose hydrolysis and sugar decompn., resp. I. Bencowitz]

[Acetylation reactivity of cellulose containing salts. C. J. Malm, K. T. Barkey, D. C. May, and P. I. Abell (Eastman Kodak Co., Rochester, N.Y.). Ind. Eng. Chem. 46, 557-61(1954); cf. C.A. 47, 2977e.—Conditioned cellulose pulp, activated in AcOH at 25°, followed by treatment with 1.8% H₂SO₄ (by wt. of cellulose) in AcOH, was acetylated adiabatically, starting temp. 20°, with 10 parts Ac₂O, 20 parts AcOH, and 0.072 mole H₂SO₄/100 g. cellulose. The time-temp. curve and the time required to obtain a clear soln. showed the effects of retained salts (1.2-8.8 millimoles/100 g. pulp) in salt-treated pulp. Na, Ca, and Mg bicarbonates and sulfates increased both the min. activation time necessary for uniform breakdown and the min. acetylation time. Acetylation reactivity of salt-treated pulp correlated with solv. of salts in AcOH (0.005, 0.0008, 0.0004% for Na₂SO₄; CuSO₄·2H₂O, and MgSO₄·7H₂O, resp.). A. J. Stirton]

Korobkov, I.I.

MT

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Alcoholytic of cellulose. V. I. Sharov, I. I. Korobkov
and A. V. Krupnova. J. Appl. Chem. U.S.S.R. 27, 301-6
(1944) (Engl. translation). See C.A. 48, 7806b.

2 May

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Korol'kov, E. I.

(3)

Alcoholysis of cellulose. V. I. Sharov, I. I. Korol'kov
and A. V. Kryanova, *Zhur. Priklad. Khim.* 27, 310-3
(1954).—Heating cotton-cellulose specimens in autoclave
with alc. solns. of H₂SO₄ at 160° with either EtOH or MeOH
results in alcoholysis. The reaction rate (shown graphi-
cally) follows a 1st-order equation. The rate of cleavage
of cellulose increases in such solns. with an increase of ROH
concen. in the aq. ROH-H₂SO₄ medium. Alcoholysis of
cellulose is accelerated by addn. of nonpolar or weakly
polar solvents (toluene, C₆H₆, CCl₄). The nature of the
cleavage is analogous to that observed in hydrolysis of
cellulose. The adsorbed aq. layer on the surface of the
cellulose fibers under the above conditions does not appear
to dil. the H₂SO₄ content of the reaction mixt. The rate
of alcoholysis of cellulose rises with an increase of its avail-
able surface (such as after mercerization). Alcoholysis
performed in the presence of Me₂CO yields a material that
is sol. in cold H₂O but insol. in EtOH and appears to be a
cellulosic propionylidene derivative. G. M. Kosolapoff

AF
9-20-54

KOROL'KOV, I.I.; SHARKOV, V.I.; GARMANOVA, Ye.N.; KRUPNOVA, A.V.

Effect of the hydromodulus on the rate of hydrolysis of wood cellulose.
Gidroliz. i lesokhim. prom. 8 no.6:14-15 '55. (MLRA 9:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'
fitno-spirtovoy promyshlennosti.
(Hydrolysis) (Cellulose)

KOROL'KOV, I. I.

M ✓ The effect of molecular interaction on the stability of glucose links in the macromolecule of cellulose toward the action of hydrolyzing agents. I. I. Korol'kov, V. P. Levanova, and V. I. Sharikov. *Colloid J. (U.S.S.R.)* 17, 337-4 (1965) (Engl. translation).—See C.A., 50, 21044.

B.M.R.

(2)

Korotkov, I. I.

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The effect of molecular interaction on the stability of glucosidic links in the macromolecule of cellulose toward the action of hydrolyzing agents. I. I. Korot'kov, V. P. Levanova, and V. I. Sharikov (Institute of Cellulose and Sulfite-Alc. Ind., Leningrad). *Kolloid Zhar.* 17, 333-6 (1955). -- Hydro-

cellulose (I) from viscose was dissolved in 65% H₂SO₄ in 1 hr. and then稀釋 with 25% H₂SO₄ to achieve a concn. of 58% H₂SO₄. If the amt. of I used was such that the final concn. of I was 0.25, 10, 20, or 30%, the const. K of hydrolysis at 35° was 0.107, 0.057, 0.044, and 0.033 hr.⁻¹, resp. However, when the more concd. solns. of I were稀釋 with 58% H₂SO₄ to obtain 0.25% solns., K was still smaller than the K of the initially dil. solns. Thus, the differences in the rate of hydrolysis are due to the fact that the attack of 65% H₂SO₄ on I is more severe the greater the ratio of 65% H₂SO₄ to I, and that I, when dissolved in 65% H₂SO₄, is more rapidly hydrolyzed by 58% H₂SO₄. Thus the theory of Konkin et al. (C.A. 48, 1321e), that more concd. solns. of I are hydrolyzed more slowly because of forces between the chains of I, is untenable. J. J. Biketman

(2)

Neutralization of wood hydrolyzates containing sulfurous acid. I. I. Kord'kov, Z. A. Tyagunova, and N. A. Nazarov. U.S.S.R. 104,439. Dec. 25, 1966. The neutralization is done with milk of lime. To prevent deposition of gypsum in the columns, freshly precipitated crystals of $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ are added to the hydrolyzate. The crystals are obtained by adding to the milk of lime a soln. of $(\text{NH}_4)_2\text{SO}_4$ or a mixt. of $(\text{NH}_4)_2\text{SO}_4$ and Na_2SO_4 . M. Heach

SHARKOV, V.I.; KOROL'KOV, I.I.; GARMANOVA, Ye.N.

Increasing the sugar yield from wood hydrolysis by means of
preliminary grinding of the wood. Gidreliz. i lesokhim.prem.
9 no.1:6-8 '56.
(MIRA 9:6)

1.Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyznyi i
sulfitno-spirtovoy promyshlennosti.
(Hydrolysis)

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.

Neutralization of hydrolysates with controlled crystallization
of gypsum. Gidroliz. i lesokhim.prom. 9 no.5:3-5 '56.
(MLRA 9:11)

1. Vsesoyznyy nauchno-issledovatel'skiy institut gidroliznoy i
sul'fitno-spirtevoy promyshlennosti.
(Hydrolysis) (Gypsum)

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.

Effect of colloids on the crystallization of gypsum. Gidroliz.
i lesokhim. prom. 9 no.8:8-9 '56. (MLRA 10:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyznoy
i sul'fitno-spirtovoy promyshlennosti.
(Colloids) (Crystallization) (Gypsum)

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; LIKHONOS, Ye.P.

Rate of crystallization of gypsum during the continuous
neutralization of hydrolysates. Gidroliz.i lesokhim.prom.
12 no.6:4-6 '59.
(MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyznoy i
sul'fitnospirtovoy promyshlennosti.
(Gypsum) (Hydrolysis)

KOROL'KOV, I. I.

The catalytic activity of very dilute solutions of sulfuric acid in their action on glucose. I. I. Korol'kov. *Zhur. Fizich. Khim.* 29, 129-302 (1955). In the equations for the rate of catalytic activity $K = K_0 + K_H[H^+]$ + $K_{OH}[OH^-]$, K_H is detd. from the rate of decompr. of glucose in $N H_2SO_4$ at 100°; $K_H = 4.8 \times 10^4/\text{hr}$. The value of K_{OH} detd. at 100° from the decompr. of glucose in the presence of solid Na_2CO_3 is 650. At pH ~ 3 the effect of $[OH^-]$ is negligible and in the range of pH 4 to 5 there is a min. decompr. rate, whereas at pH ~ 7 the reaction rate is affected primarily by $[OH^-]$ and the rate is 100 times as fast as at the min. K_0 , the rate const. of unionized H_2O_2 is detd. from the reaction at pH ~ 3 from the equation $K_0 = K - K_H[H^+]$; the values of K_0 at 180 and 100° are 3.58×10^{-2} and 6.12×10^{-3} . L.B.

15

A study of structure of cellulose by the method of ethanols. I. I. Korol'kov, V. I. Shatkov, and E. N. Garmanova. *Dokl. Akad. Nauk S.S.R.* 109, 116 (1957).
Amorphous cellulose (I) obtained by ball-grinding of cotton cellulose was treated in a Cu autoclave with abs. EtOH contg. 10% H₂SO₄ 20-30 min. at 100°. The washed and dried products were used for detg. the percentage of dissolved cellulose. Similar examin. of other celluloses showed that while cotton cellulose contains 7% I, sulfite cellulose contains 16, cellophane 42, and viscose silk 45%. The d. of I was estd. at 1.498, i.e. decidedly lower than that calcd. by Heremans (*Contributions to the Physics of Cellulose Fibers*, 1946 (C.A. 40, 6260t)).

3

G. M. Kosolapoff

KOROL'KOV, I.I.; SHARKOV, V.I.; KRUPNOVA, A.V.

Causes for retarded reaction in the hydrolysis of vegetable cell
polysaccharides at a low hydromodulus. Gidroliz. i lesokhim.prom.
10 no.1:8-10 '57.
(MLRA 10:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyzny i
sul'fitno-spirtovoy promyshlennosti.
(Polysaccharides) (Hydrolysis)

KOROL'KOV, I.I.; SHARKOV V.I.; GARMANOVA, Ye.N.

Alcoholysis technique for investigating the structure of
cellulose. Zhar.prikl.khim. 30 no.4:586-598 Ap '57. (MIRA 10:?)
(Cellulose) (Alcoholysis)

SHARKOV, V.I.; KOROL'KOV, I.I.; GARMANOVA, Ye.N.

The "limit" polymerization degree of cellulose. Zhur. prikl. khim. 30
no.11:1668-1672 N 157. (MIRA 11:2)
(Cellulose) (Polymerization)

KOROL'KOV, I.I.; KRUPNOVA, A.V.; GARMANOVA, Ye.N.; IVLIYEVA, Ye.A.

Effect of the diffusion of sugar on its yield in percolation
hydrolysis of wood. Gidroliz. i lesokhim. prom. 11 no.2:1-5
'58. (MIRA 11:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyznoy i
sul'fitno-spirtovoy promyshlennosti,
(Sugar) (Hydrolysis)

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; IVLIYEVA, Ye.A.; RYABOVICH, V.I.;
PAPASHNIKOV, L.M.

Kinetic method of evaluating systems of percolation hydrolysis of
sawdust. Gidroliz. i lesokhim. prem. 11 no.6:3-6 '58.

(MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyzney i
sul'fitno-spirtovoy promyshlennosti.
(Hydrolysis)

KOROL'KOV, I.I.; KRESTAN, E.Sh.; PAPASHNIKOV, L.M.; PARAMONOVA, G.D.;
EFRON, I.N..

Hydrolysis with co-ordinated reaction parameters and the return
of the tail hydrolysate to charge. Gidroliz. i lesokhim.prom.
11 no.7:20-24 '58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i
sul'fitno-spirtovoy promyshlennosti (for all except Efros). 2. Sogezhaskiy
gidroliznyy zavod (for Efros)
(Hydrolysis)

SHARKOV, V.I.; KOROL'KOV, I.I.; KRUPNOVA, A.V.

Transforming woodpulp and wood into a readily hydrolyzable state
by the action of γ -rays. Gidroliz. i lesokhim.prom. Tl no. 8-34
' 58. (MIRA 11112)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i
sul'fitno-spirtovoy promyshlennosti.
(Woodpulp) (Gamma rays--Industrial applications)
(Hydrolysis)

KOROL'KOV, I.I.; SHARKOV, V.I.; KRUPNOVA, A.V.

Study of the "recrystallization" phenomenon in cellulose. Zhur.
prikl. khim. 31 no.10:1560-1565 O '58. (MIRA 12:1)
(Cellulose) (Crystallization)

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; RYAZANTSEV, N.V.; PETI, P.K.;
MEDVEDEV, S.P.; LYUKHANOV, O.P.

Continuous neutralisation of hydrolyzates. Gidroliz.i
lesokhim.prom. 13 no.1:17-20 '60. (MIRA 13:5)

1. Nauchno-issledovatel'skiy institut gidrolyznoi i sul'fitno-
spiritovoy promyshlennosti (for Korol'kov, Tyagunova, Ryazantsev,
Peti). 2. Tavdinskii gidrolyznyi zavod (for Medvedev).

3. Krasnodarskiy gidrolyznyi zavod (for Lyukhanov).

(Krasnodar--Wood-using industries--Equipment and supplies)
(Hydrolysis)

KOROL'KOV, I. I.; KAL'MANOVICH, S.L.; VITEL'S, V.L.; EFROS, I.N.

Introducing automatic control for the stabilization of hydrolysis processes. Gidroliz.i lesokhim.prom. 13 no.4:
11-14 '60. (MIRA 13:7)

1. Nauchno-issledovatel'skiy institut gidrolyznoi i sul'fitno-spirtovoy promyshlennosti (for Kal'manovich). 2. Segezhskiy gidrolyznyy zavod (for Efros).
(Segezha--Hydrolysis) (Automatic control)

5.3500

77655
SOV/80-33-2-30/52

AUTHORS: Korol'kov, I. I., Paramonova, G. D., Huo Yüan-Lu

TITLE: Comparative Characteristics of the Hydrolysis Rate
of Polysaccharides Found in Various Kinds of Vegetable
Raw Materials

PERIODICAL: Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2,
pp 431-438 (USSR)

ABSTRACT: The hydrolysis of easily hydrolyzed polysaccharides,
found in hemicelluloses of various vegetable materials,
consists of two stages, namely, the dissolution to
dextrans, and the hydrolysis of dextrans to the mono-
saccharide stage. The hydrolysis of various materials
(cotton husk, bagasse, corncobs, fir wood, birch wood,
etc.) was conducted at 100° in the presence of 2-4%
sulfuric acid solution. The hydrolyzate was filtered
and subjected to additional hydrolysis. The difference
between the amounts of the reducing substances deter-
mined before and after the second hydrolysis was
considered as the amount of dextrans. The hydrolysis

Card 1/3

Comparative Characteristics of the
Hydrolysis Rate of Polysaccharides
Found in Various Kinds of Vegetable
Raw Materials

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SOV/80-33-2-30/52

rate of the cellulose was determined in the material after the elimination of the easily hydrolyzed polysaccharides. The reaction was conducted at 180° C in the presence of 0.5% sulfuric acid solution. It was found that the hydrolysis rate of the easily hydrolyzed polysaccharides was in direct proportion to the acid concentration, and that it was hundreds or thousands of times larger than the hydrolysis rate of cellulose. Corncob polysaccharides dissolved much more quickly than all other; then cotton husk, fir wood, bagasse, and rust polysaccharides. The slowest to dissolve were the sunflower seed husk, birch- and beech-wood polysaccharides. The hydrolysis rate constants of the individual fractions were determined by means of the formula:

$$K_F = \frac{2.3}{t} \lg \frac{a}{a-x}$$

Card 2/3

Comparative Characteristics of the
Hydrolysis Rate of Polysaccharides
Found in Various Kinds of Vegetable
Raw Materials

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SOV/80-33-2-30/52

where K_F is the solubility rate constant of the 10% polysaccharide fractions of the hemicelluloses; t is the solution time of this fraction; a is the amount of undissolved polysaccharides remaining after the dissolution of the preceding fraction; and x is the 10% fraction. The various fractions underwent hydrolysis at different rates. For example, the most easily hydrolyzed fraction of corncob polysaccharides was hydrolyzed 10 times faster than its least hydrolyzable fraction. The only exception was beechwood, all of whose fractions had identical K_F values. A. A. Anisimova took part in the experimental part of this study. There are 4 figures; 5 tables; and 4 Soviet references.

SUBMITTED:

Card 3/3

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CIA-RDP86-00513R000824820012-4

KOROL'KOV, I.I.; PARAMONOVA, G.D.

Content of the easily hydrolyzable fraction of cellulose in wood-pulp. Zhur. prikl. khim. 33 no.12:2739-2743 D '60. (MIRA 14:1)
(Cellulose)

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CIA-RDP86-00513R000824820012-4"

KOROL'KOV, I.I.; KRESTAN, E.Sh.; BATIKOV, L.S.; ZOTAGINA, S.A.

Relation between the value of the hydrolysis module for the
hydrolyzate yield on the plant production capacity and costs.
Gidroliz. i lesokhim. prom. 14 no. 1:19-22 '61. (MIRA 14:1)

1. Nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-
spiritovoy promyshlennosti (for Korol'kov, Krestan). 2. Lobvin-
skiy hidroliznyy zavod (for Batikov, Zotagina).
(Wood-Chemistry) (Hydrolysis)

KOROL'KOV, I.I., ZAYTSEV, B.M. [deceased]; SHARKOV, V.I.; VAYNER, A.S.; EFROS, I.N.; EFROS, V.A.; BUBNOVA, N.I.

Percolation hydrolysis with a variable flow of liquid. Gidroliz.
1 lesokhim.prom. 14 no.2:10-14 '61. (MIRA 14:3)

1. Nauchno-issledovatel'skiy institut gidrolizno-sul'fitno-spirovoy promyshlennosti (for Korol'kov, Zaytsev, Sharkov, Vayner).
2. Segezshskiy gidroliznyy zavod (for I. Efros, V. Efros, Bubnova).
(Hydrolyzat) (Percolation) (Wood—chemistry)

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CIA-RDP86-00513R000824820012-4

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; LIKHONOS, Ye.F.

Rate of crystallization of plaster of Paris from supersaturated
solutions at various temperatures. Zhur. prikl. khim. 34 no.1:
120-125 Ja '61. (MIRA 14:1)

(Plaster of Paris)

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CIA-RDP86-00513R000824820012-4"

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; POLIVANNYY, V.I., nauchn. red.;
PETRENKO, V.M., tekhn. red.

[Continuous neutralization of hydrolysates] Nepreryvnaia
neutralizatsiia gidrolizatorov. Moskva, TSentr. in-t
tekhn. informatsii i ekonom. issl. po lesnoi, bumazhnoi i
derevoobrabatyvaiushchei promyshl., 1963. 31 p.

(MIRA 16:9)

(Hydrolysis) (Lime)

KOROL'KOV, I.I.

Varying hydrolysis rate of easily hydrolyzable polysaccharides
from hemicelluloses of vegetable tissue. Zhur. prikl. khim. 34
no.5:1139-1142 My '61. (MIRA 16:8)

(Hydrolysis) (Polysaccharides)

KOROL'KOV, I.I.; LIKHOVID, R.D.

Simplified method for determining sparingly hydrolyzable
polysaccharides in lignin. Gidroliz. i lesokhim. prom. 15
no.7:10-11 '62. (MIRA 16:8)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy
i sul'fitnospirtovoy promyshlennosti.
(Lignin) (Hydrolysis)

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CIA-RDP86-00513R000824820012-4

KOROL'KOV, I.I.; KRESTAN, E.Sh.; UL'YANOVSKAYA, R.I.

Introducing a hydrolysis method with alternate flow. Gidroliz.
i lesokhim. prom. 15 no.7:12-14 '62. (MTRA 16:8)

(Hydrolysis)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

KOROL'KOV, I.I.

Analyzing the ways for the development of the technology of
continuous hydrolysis methods. Gidroliz. i lesokhim.prom. 15
no.1:3-4 '62. (MIRA 18:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy
i sul'fitno-spirtovoy promyshlennosti, Leningrad.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, I.I.

Methods and conditions of the percolation hydrolysis of wood
wastes. Sbor. trud. NIIGS 12:7-39 '64. (MIRA 18:3)

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CIA-RDP86-00513R000824820012-4"

KOROL'KOV, I.I.; LIKHONOS, Ye.F.; UL'YANOVSKAYA, R.I.; LIKHOVID, R.D.

Investigating the characteristics of the hydrolysis of easily
hydrolyzed polysaccharides. Gidroliz. i lesokhim. prom. 17 no.7:
4-7 '64. (MIRA 17:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy
i sul'fitno-spirtovoy promyshlennosti, Leningrad.

KRESTAN, E.Sh.; KOROL'KOV, I.I.

Investigating the process of sugar extraction in percolation hydrolysis. Gidroliz. i lesokhim.prom. 18 no.183-5 '65.

(MTR 18:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti.

LIKHONOS, Ye.F.; KOROL'KOV, I.I.

Determination of the quantity of soluble polysaccharides.
in hydrolyzates. Zhur. prikl. khim. 36 no.5:1152-1154
My '63. (MIRA 16:8)

(Polysaccharides) (Hydrolysis)

KOROL'KOV, I.I.; STRIZHEVSKAYA, I.S.; LIKHOVID, R.D.; PARAMONOV, G.D.;
ZYBIN, S.Ye.; BATIKOV, L.S.; DOLGOKHVESTOV, I.A.

Experiments in the production of hydrolysates for growing yeast
at the Ivdel' Hydrolysis Plant. Gidroliz. i lesokhim. prom.
16 no.5:3-7 '63. (MIRA 17:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy
i sul'fitno-spirtovoy promyshlennosti (for Korol'kov,
Strizhevskaya, Likhovid, Paramonova). 2. Ivdel'skiy gidroliznyy
zavod (for Zybin, Batikov, Dolgokhvostov).

KOROL'KOV, I.I., inzh.

Mechanization of the hoisting and placement operations of ferroboron
guard plates in the spirals of boiler flue gas pumps. Energetik
12 no.2:15-16 F '64.
(MIRA 17:4)

KOROL'KOV, I.I., inzh.

Treatment of the sealing surfaces of high-pressure latches
built-up with "sormait No.1" solid alloy. Energetik 12 no.3:
18-19 Mr '64. (MIRA 17:4)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, I.I., inzh.

Angular drilling machine. Energetik 12 no.7:23-24 J1 '64.
(MIRA 17:9)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

ABUZOV, Abdurakhman Gonneevich; SOLDATOV, Konstantin Pavlovich;
KOROL'KOV, I.I., red.

[Soviet of master workmen of a plant; practices of master
workmen at the "Elektrosila" Plant] Sovet masterov pred-
priatiia; iz opyta raboty s masterami na zavode "Elektro-
sila" im.S.M.Kirova. Leningrad, 1964. 23 p.
(MIRA 18:1)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, I. I., inzh.

Efficient method for locating defective tubes in water heaters.
Energetik no.9:12-13 S '64. (MIRA 17:10)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

KOROL'KOV, I.I., doktor tekhn.nauk

Urgent problems in improving the technology of hydrolysis and
alcohol production. Gidrolyz. i lesokhim.prem. 17 no.8:4-6 '64.
(MIRA 18:1)

KRESTAN, E.Sh.; KOROL'KOV, I.I.

Investigating the process of sugar separation in case of the use
of a side feeding tube for percolation. Gidroliz. i lesokhim. 18
no.2:6-9 '65. (MIRA 18:5)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznay
i sul'fitno-spirtovoy promyshlennosti, Leningrad.

KOROL'KOV, I.I.; LIKHONOS, Ye.P.

Composition of the reducing nonsugars of hydrolyzates. Gidroliz.
i lesokhim. prom. 18 no.3:9-12 '65. (MIRA 18:5)

I. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh
i sanitarno-tehnicheskikh rabot.

KOROL'KOV, I.I.; LIKHONOS, Ye.F.; BOBOREKO, E.A.; DRUBLYANETS, E.E.;
KARDASH, F.G.; NORINA, A.Ye.

Industrial testing of the technology of yeast propagation on
inverted hydrolyzates. Gidroliz. i lesokhim. prom. 18 no.5:4-
6 '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznay
i sul'fitno-spirtovoy promyshlennosti (for Korol'kov, Likhonos,
Boboreko, Drublyanets). 2. Taydinskiy gidroliznyy zavod (for
Kardash, Norina).

LIKHONOS, Ye.F.; KOROL'KOV, I.I.

Analyzing the inversion of wood hydrolyzates. Gidroliz. i lesokhim.
prom. 18 no.6:3-4 '65. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrolyznoy
i sul'fitno-spirtovoy promyshlennosti.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, I. V.

KITAYTSEV, V.A.; GURVICH, R.M.; KOROL'KOV, I.V.; GINZBURG, D.B., doktor
tekhnicheskikh nauk, professor, retsentrant; NOKHRETYAN, K.A., kandi-
dat tekhnicheskikh nauk, redaktor

[Heat engineering and heating installations in the building materials
industry] Teplotekhnika i teplovye ustanovki v promyshlennosti
stroitel'nykh materialov. 3-e izd. perer. i dop. Moskva, Gos. izd-
vo lit-ry po stroitel'nym materialam, 1954. 495 p. (MLRA 8:4)
(Heat engineering) (Building materials industry)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

ACCESSION NR: AP4007915

S/0108/63/018/012/0066/0067

AUTHOR: Korol'kov, I. V.

TITLE: Design and construction of double dielectric coaxial lines

SOURCE: Radiotekhnika, v. 18, no. 12, 1963, 66-67

TOPIC TAGS: coaxial line, double dielectric coaxial line, coaxial feeder, feeder, coaxial transmission line, nonresonant feeder, cannon plug, plug-type connector, feeder connector, dustproof connector, waterproof connector

ABSTRACT: In transmitting large rf power, air-dielectric lines have a heavier cross-section than the r-f cable. A coupler used to connect the two must have the same electric strength as the elements connected by it. For this the space in the coupler must be filled with a solid dielectric. Such a coupler is shown in Enclosure 1. Formulas for the characteristic impedance of and field strength in a two-dielectric line are given, and design requirements ensuring reliability are formulated. Orig. art. has: 2 figures and 6 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 07Jan64

ENCL: 01

SUB CODE: CO

NO REF SOV: 003

OTHER: 000

GW-142

U.L.024-65 EMT(d)/EMT(1)/EEQ(f)/EEQ-2/EEA(h)/EMR(l) Pg-4/Pi-4/Pk-4/Fo-4/Fu-4/
Pub IJP(c) GO/BB
ACCESSION NR: AP5010947 UR/0286/65/000/007/0131/0131

AUTHORS: Yakubovich, A. M.; Korol'kov, I. V.; Braslavskiy, D. A.; Bubnov, I. A.;
Mironov, B. V.

TITLE: Operational amplifier. Class 42, No. 169678

SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 7, 1965, 131

TOPIC TAGS: amplifier

ABSTRACT: This Author Certificate presents an operational amplifier with parallel amplification channels and with automatic compensation of zero drift. To increase its reliability and accuracy of operation, it contains no less than three amplification channels operating alternately so that at any instant of time two of them are in the amplification mode. Each channel contains a dc amplifier with operation periodization and with discrete-periodic zero drift compensation by a circuit with a storage capacitor. To decrease the effect of a constant spurious signal with the breakdown of one of the channels, each channel contains a decoupling capacitor connecting the amplifier output of the particular channel through a resistance and a switching unit to the common output of the operational amplifier. The switching unit discharges the decoupling capacitor in the zero drift compensation mode.

Card 1/2

L42024-65

ACCESSION NR: AF5010947

ASSOCIATION: Organizatsiya gosudarstvennogo komiteta po aviatcionnoy tekhnike
(Organization of the State Committee for Aviation Technology)

SUBMITTED: 06Feb64

ENCL: 00

SUB CODE: EC

NO REF Sov: 000

OTHER: 000

Card 2/2 ✓

L 07135-67 EWT(d)/FSS-2/EWT(1) TG

ACC NR: AP7001047

SOURCE CODE: UR/0106/66/000/008/0070/0074

3.9
BKOROL'KOV, I. V."Estimation of Parameters of Failure-Free Operation of Nonredundant Radio Electronics Devices"

Moscow, Elektrosvyaz', No 8, 66, pp 70-74

25

Abstract: Calculation formulas are presented to calculate the probability and mean time of failure-free operation, the frequency and intensity of failures to be expected in nonredundant devices where brief interruptions are permissible during which the device fulfills its functions. The formulas are applicable for calculation of reliability parameters for a duplicated restored system with a cold, nonrestored reserve whose reliability differs from the reliability of the main device. The formulas presented can be used to calculate the probability of failure-free operation with an error of not over 1%. Orig. art. has: 7 formulas and 2 tables. [JPRS: 38,490]

ORG: none

TOPIC TAGS: circuit reliability, electronic engineering

SUB CODE: 09 / SUBM DATE: 07Sep65 / ORIG REF: 004

Card 1/1 *exp*

UDC: 621.3.019.34

092400601

52072

S/120/60/000/02/026/052
E041/E421

24.3400

AUTHORS: Korol'kov, I.Ya. and Burgov, N.A.

TITLE: Automatic Equipment for Measuring Spectra with a Magnetic Spectrometer

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, Nr 2,
pp 99-103 (USSR)

ABSTRACT: Intended for Compton spectrometry, the apparatus does the following: 1 stabilizes the magnetic field within the range 150 to 1480 oersted; 2 automatically maintains a given field for a given time; 3 automatically sets the field in steps of 2.6, 5.2 or 10.4 oersted over the whole range of variation. The block diagram in Fig 1 shows the field pick-off and high-frequency oscillator; the magnet stabilizing loop; the field "sweeping" circuit which provides the independent variable for the spectrum; the interval timer. The field pick-off is a conventional nuclear-magnetic resonance device and consists of a polystyrene cylinder holding 7 cc of decimolar $MnSO_4$. Five coils are used to cover the range of fields and their details are tabulated on p 99. The width of the absorption line *H*

Card 1/2

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824820012-4

S/120/60/000/02/026/052
E041/E421

Automatic Equipment for Measuring Spectra with a Magnetic Spectrometer

is 0.5 oersted. The circuit of the oscillator is in Fig 2; the frequency is varied by a motor-driven tuning capacitor. Fig 3 is the stabilizer circuit and consists of a high-speed loop using π_{11} and π_{12} and a low-speed loop using π_{13} , π_{14} and π_{10} , both loops feeding control windings on a EMU-25 electromechanical amplifier. Fig 4 shows the field sweeping circuit ($\pi_1 - \pi_{13}$) and the timer ($\pi_{14}, \pi_{16} - \pi_{21}$). The sweep circuit operates by comparing the output of the high-frequency oscillator with a harmonic from a stable multivibrator and halting the sweep when coincidence occurs. The heart of the timer is a crystal controlled 100 kc/s source. Fig 5 is the circuit of the integrator which measures the rate of counting coincidences. Fig 6 gives an example of a typical result, the gamma-spectrum of Co^{60} . The author thanks G.V.Danilyan, N.V.Lazarev and V.I.Naumkin for assistance. There are 6 figures, 1 table and 6 references, 2 of which are Soviet and 4 English. *H*

SUBMITTED: February 12, 1959
Card 2/2

S/089/60/009/003/006/014
B006/B063

AUTHORS: Burgov, N. A., Danilyan, G. V., Korol'kov, I. Ya.,
Shterba, F.

TITLE: The Gamma Spectrum ^M of the TBP(TVR) Reactor ¹⁹

PERIODICAL: Atomnaya energiya, 1960, Vol. 9, No. 3, pp. 214-215

TEXT: The authors of the present paper used a gamma spectrometer of the "Elotron"-type to measure the spectrum of gamma rays emerging from a radial hole of the TVR reactor. The geometry of the experiment, which is briefly described in the introduction, is schematically represented in Fig. 1. Fig. 2 shows the entire measured spectrum (resolution of 1.25 per cent for $E_{\gamma} \geq 2$ Mev). The peaks are numbered according to the numbering of the lines in the table. The second column of this table gives the energies of the various lines in Mev, and the values enclosed in brackets indicate the errors of the last places. The third column gives the relative intensities of the lines (accurate to about 10 per cent), and the fourth column gives the various possibilities of their identification. Individual lines were identified from data of Ref. 3. The fourth column further gives the

✓C

Card 1/2

The Gamma Spectrum of the TBP(TVR) Reactor

S/089/60/009/003/006/014
B006/B063

elements emitting a certain line. The figures beside the symbols of the elements correspond to the numbering of the lines from Ref. 3. Altogether, 45 lines are considered. Fig. 3 shows the gamma spectrum related to uniform intervals ΔH_0 , taking in consideration the efficiency of the spectrometer as well as of the absorption of gamma quanta by the neutron filter. Specific features of several lines are briefly discussed, and comparisons are made with the results of other authors. Thus, for example, it was not possible to detect the line described in Ref. 6, which has an energy of 4.062 ± 0.010 Mev and an absolute intensity of 7 per cent (gamma radiation from neutron capture of U^{238}). It might be identical with a line of 4.050 ± 0.015 Mev, which was found by the authors. The last neutron in U^{239} has a binding energy of 4.63 ± 0.15 Mev, which is in good agreement with the gamma line No. 25 (4.640 ± 0.015 Mev). If U^{239} is assumed to be the emitter, the absolute line intensity amounts to 1% per capture. This value agrees with the results of Ref. 6 where this line was not observed. A considerable part of the gamma spectrum of the reactor remains unsolved, obviously due to gamma rays from neutron capture in U^{235} and U^{238} , and from fission events. There are 1 figure, 1 table, and 8 references:
5 Soviet, 2 US, and 1 Canadian.

SUBMITTED: February 24, 1960

Card 2/2

40871

S/048/62/026/009/006/011
B125/B1862/1 2/100
AUTHORS:Danilyan, G. V., and Korol'kov, I. Ya.TITLE: Energy spectrum of the internal conversion pairs arising
in the thermal neutron radiative capture in GdPERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,
no. 9, 1962, 1164-1168

TEXT: The energy spectrum of the internal conversion pairs was taken with a magnetic spectrometer. The thermal neutron beam ($10^8 \text{ cm}^{-2} \text{ sec}^{-1}$) of the horizontal channel of a heavy-water reactor was made incident on an emitter (aluminum foil with evaporated metallic gadolinium). This measuring apparatus was controlled via the thermal neutron capture γ -radiation in Cl. With increasing energy $E\gamma$ the number of internal conversion pairs at first increases rapidly, then more slowly. A distinct peak of coincidences (intensity 0.5 pulses/min) occurs at $E\gamma = 6.74 \text{ Mev}$. For the coincidences I - III and II - IV this peak was weaker than the background of the random coincidences (0.5 pulses/min.) by at least one

Card 1/2

L 17855-63

EWT(m)/BDS AFFTC/ASD

ACCESSION NR: AP3003692

S/0048/63/027/007/ 0895/0899

AUTHOR: Pavlov, V.S.; Danilyan, G.V.; Korol'kov, I.Ya.TITLE: Refinement of the decay scheme for In^{116} /Report of the Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev from 25 January to 2 February 1963/

SOURCE: AN SSSR, Izv, Seriya fizicheskaya, v.27, no.7, 1963, 895-899

TOPIC TAGS: isotope activation, nuclear spectrometry, decay schemes, In^{116}

ABSTRACT: The primary purpose of the work was to evaluate the feasibility of using a closed loop activation system for studying the decay of short-lived nuclides by means of a magnetic gamma-spectrometer, in view of the fact that magnetic recoil spectrometers are characterized by high accuracy for obtaining energy and intensity values, but have the drawback of low efficiency, so that in the case of short-lived isotopes several activations are necessary to study the full spectrum. The activation loop consisted of two stainless steel tubes - one used as the source, the other located in the neutron flux near the core of a heavy-water reactor - a centrifugal circulating pump, an expansion chamber and appropriate stainless steel connecting tubing. The loop geometry was such that the irradiation time was about 20 sec; the transit time from irradiation tube to source tube about 8 sec; the full cycle

Card 1/3

L 17855-63
ACCESSION NR: AP3003692

4

time 50 sec. The total volume of the system was about 5 liters. In¹¹⁵ was selected for the test experiments; neutron capture by this isotope results in formation of In¹¹⁶ in the ground state ($T = 13$ sec) and an isomeric state ($T = 54$ min). The material was circulated in the activation loop in the form of a water solution of In(NO₃)₃ (150 g per 5 liters water solution). The neutron and gamma background was attenuated by one B₄C and 10 steel blocks with a total length of 1500 mm. The gamma-ray spectrum of In¹¹⁶ was measured in the range from 0.7 to 1.8 MeV in 13 keV steps (10 min counting at each field value). The 13-sec activity was distinguished by damping ~~in~~ the reactor for 5 min intervals. The energies and intensities of the detected gamma-rays are tabulated together with the energy values reported by other authors. A refined decay scheme is presented (see Enclosure). "In conclusion we take this opportunity to thank N.A.Burgov for useful discussions and A.I.Zubkov and G.V.Rotter for assistance in the work." Orig.art.has: 1 formula, 4 figures and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Goskomiteta po mirnomu ispol'zovaniyu atomnoy energii SSSR (Inst. of Theoretical & Experimental Physics, State Committee on Peaceful Uses of Atomic Energy, SSSR)

SUBMITTED: CO
SUB CODE: NS, SD
Card 2/3

DATE ACQ: 02Aug63
NO REF SOV: 002

ENCL: 01
OTHER: 007

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, L.A.

Radioactive level gage. Trudy VNILING no.2:101-102 '63.
(MIRA 17:5)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

KOROL'KOV, M.

Incomprehensible indifference. Prom.koop. 14 no.6:34
Je '60. (MIRA 13:7)

1. Starshiy inzhener otdela trudovogo ustroystva invalidow
Rospromsoveta.
(Home labor) (Handicapped--Employment)

BR

S/123/62/000/006/001/018
A004/A101

AUTHORS: Rubanovich, Ya. G., Korol'kov, M. F.

TITLE: Plastics used in the manufacture of blades of rotors of pneumatic machines

PERIODICAL: Referativnyy zhurnal. Mashinostroyeniye, no. 6, 1962, 22. abstract 6A147 ("Gorn. Mashiny i avtomatika. Nauchno-tehn. sb.", 1961, no. 3 (20), 127-129)

TEXT: The authors present the results of wear tests of blades of rotors of pneumatic machines manufactured from the following materials: textolite, textolite crumbs, fiber, asbestos-textolite, glass textolite, C3 Al4(SVAM) glass plastic, etc. The machine rotor rotation speed attained 5,000 rpm. Textolite and asbestos-textolite blades were additionally tested at 7,000 - 7,500 rpm. It was found that the wear of the asbestos-textolite blade edges is the least during friction on cast iron stators. At 7,000 - 7,500 rpm the wear of asbestos-textolite blades is by 3.5 times less than that of textolite blades. The cost price of such blades is by 35% lower.

[Abstracter's note: Complete translation]

Card 1/1

RUBANOVICH, Yakov Grigor'yevich; KOROL'KOV, Mikhail Fedorovich;
MEKINULOV, R.D., red.

[Technical and economic bases of the service life of
manufactured articles] Tekhniko-ekonomiceskoe obosnovaniye
srokov sluzhby izdelii. Leningrad, 1964. 25 p.
(MIRA 17:11)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, N., polkovnik

On the terrain around Moscow. Starsh.-serezh. no.12:16-18 D '61.
(MIRA 15:3)
(Moscow, Battle of, 1941-1942)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

KOROL'KOV, N., polkovnik (Belorusskiy voyennyy okrug)

Sergeants of the first rifle company. Starsh.-serzh. no.3:2-3
Mr '62. (MIRA 15:4)
(Russia—Army—Noncommissioned officers)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, N.

Pneumatic bench clamps. Mashinostroitel' no.6:25
Je '60. (MIRA 13:8)
(Pneumatic tools)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

22 (1)

AUTHOR:

Korol'kov, N.

SOV/27-59-2-23/30

TITLE: On a Friendly Visit (S druzheskim vizitom)

PERIODICAL: Professional'no-tekhnicheskoye obrazovaniye, 1959, Nr 2,
p 32 (USSR)

ABSTRACT: A group of instructors and master-foremen of the Bobruyskoye
uchilishche mekhanizatsii sel'skogo khozyaystva Nr 8
(Bobruysk School of Agricultural Mechanization Nr 8) visited
the most advanced schools in the same field in Lithuania and
Latvia to exchanging experience. The teachers familiarized
themselves with training in the Lithuanian School of Agricult-
ural Mechanization Nr 10 in Rasinyay and the Priyekule School
of Agricultural Mechanization Nr 2 in Latvia which is one of
the best schools in the country.

Card 1/1

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, N., polkovnik

Laying the first track, Voen. znan. 41 no.8:12-13 Ag '65. (MIRA 18:7)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

KOROL'KOV, N., polkovnik

The tank is a terrible weapon. Voen.znan. 39 no.9:5-6 S '63.
(MIRA 16:10)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, N.

Pneumohydraulic machine for broaching holes. Mashinostroitel'
no. 5:22 My '60. (MIRA 14:5)
(Broaching machines)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KOROL'KOV, N., polkovnik

Benefactress of Leningrad. Starsh.-serzh. no.11:34 0[i.e. N] '61.
(MIRA 15:2)
(Leningrad--Siege, 1941-1944)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4"

KOROL'KOV, N.

Training the masters of mechanical milking. Prof.-tekh. obr. 20
no. 5:21-22 My '63. (MIRA 16:7)

(Milking--Study and teaching)
(Milking machines)

L 44137-66 ENT(m)

ACC NR: AP6021927 (N) SOURCE CODE: UR/0017/66/000/003/0008/0009

37

36

B

AUTHOR: Korol' kov, N.

ORG: Far Eastern Military District (Dal' nevostochnyy voyennyy okrug)

TITLE: Fast amphibious landing operation

SOURCE: Voyennyye znaniya, no. 3, 1966, 8-9

TOPIC TAGS: amphibious landing, auxiliary ship, armored carrier, military tank, air force training, airborne landing, nuclear weapon, military training /T-101 transport ship

ABSTRACT: The author describes in detail an amphibious landing on a cape jutting out into the Pacific Ocean, which was carried out during military training exercises by soldiers of the Far Eastern Military District. All types of troops took part in this operation, and the commanders reportedly were pleased with the results. The amphibious landing operation was commanded by Lt. Colonel Sergey Rozhkov. No losses were suffered. A reinforced subunit of motorized infantry acted as a naval landing force. Guns, mortars, armored carriers, and tanks were loaded onto ocean-going transports, which then sailed for a point many nautical miles away, where the

Card 1/2

KUKOL'KOV, N. I.

PHASE I BOOK EXHIBITION

307/4754

Избранные сокращения по групповому производству процессов в машиностроении и производстве технических и машиностроительных инструментов (Group Processing Methods in the Machine and Instrument Industries). Moscow, Vsesoyuznyi

Изд. P. Izdat. sib. Izd. 1976. 7,000 copies printed.
Ed. 1. Leningrad. 1st. Leningrad, 1979

(Selected Abstracts on Group-Processing Techniques & Manufacturing Processes & Manufacturing Methods in the Machine and Instrument Industries). Moscow, Vsesoyuznyi

Metodologiya i organizatsiya vvedeniya novykh protsessov v maschinostrоenii [Group-Processing Methodology and Organization of Introducing New Processes in Machine-Tool Production]. Moscow (Leningrad) Department. Leningrad, 1979. 1,000 copies printed. Institute of Machine-Tool Production, Leningrad, Ed., G. V. Gerasimov, Institute Ed., or Publishing House, N. T. Blazhevskiy, Tech. Ed., G. V. Speranskaya.

PURPOSE: This collection of articles is intended for technical personnel in machine plants, designing organizations, and scientific-research institutes. It may also be useful to skilled workers.

CONTENTS: The collection contains 117 abstracts from various international conferences on Group Processing in the Machine and Instrument Industries, held from 1968 to 1978. The conference will call for scientific and technical institutions on the machine and instrument industry, GOMS NPOs, and laboratories. The articles are based on the experience of industry in introducing the group-processing principle in production. They discuss basic trends in development, and group methods in the basis of mechanized continuous production. The data include characteristics of production lines, organization of enterprises, and methods of control and optimization of equipment. An analysis of problems dealing with the introduction of group-processing methods into processing various machine tools and into production of blanks (cylindrical, prismatic, etc.). Practice is considered. Planning standards, design, and methods for calculating the economic effectiveness of group processing are also treated. No personalities are mentioned. There are no references.

TABLE OF CONTENTS

Introduction [Voronezh]. Group Method of Processing Parts by Forging (From the Experience of the Voronezh Plant)	59
Part I. [Leningrad]. Basic Principles of Introduction of Group Processing in the Production of Articles of Thermoplastic Plastics	67
PART II. MECHANICAL MACHINING AND ASSEMBLY PROCESS	
Dobrotsev, I.O. [Leningrad]. Introduction of the Group-Machining Method for Cutting Parts on Various Milling-Cutting Machine Tools (From the Experience of the Leningrad Plant)	87
Osipova, N.M. [Voronezh-Don]. Group Machining of Parts on Various Metal-Cut- ting Machine Tools	92
Dobrotsev, I.O. [Voronezh]. Group Machining in the Voronezh-Mashnyi Maschino- stroitel'nyi Zavod (Voronezh Machine-Building Plant)	114
Reznichenko, S.A. [Leningrad]. Group-Processing as the Basis for the Wide Use of Automatic Lines in Small-Scale Production (From Experience Gained in the Operation of Group Calculating Machines in Leningrad Institute of Machine-Tool Plant)	117
Mishchenko, M.Z. [Peresec]. Machine-Tool Attachments with Exchangeable Standard Parts	155
Sokolov, Yu. [Voronezh]. Experience in Designing Group-Type Machine-Tool Components	174
Rogulin, I.I. [Voronezh]. Group Processing as the Basis for the Mechanization and Automation of Production	187

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